NASA's Goddard Space Flight Center, Code 665, Greenbelt MD 20771 Telephone: 301-286-3938, Fax: 301-286-1753 Jonathan.P.Gardner@nasa.gov, http://survey.gsfc.nasa.gov/

EDUCATION:

Doctor of Philosophy, Astronomy, University of Hawaii, 1992.

Thesis: "A Near-Infrared Faint Galaxy Survey: Evolution and the Cosmological Geometry From *K*-Band Photometry." Advisor: Lennox L. Cowie.

Master of Science, Astronomy, University of Hawaii, 1988

Bachelor of Arts, *magna cum laude*, Astronomy and Astrophysics, Harvard University, 1986.

Thesis: "Spacelab 2 Measurements of the Infrared Space Shuttle Glow." Advisor: Giovanni G. Fazio.

PROFESSIONAL EXPERIENCE:

Astrophysicist, NASA's Goddard Space Flight Center, March 1999 to present.

Program Scientist, NASA Headquarters, April 2004 to October 2004.

Assistant Scientist, A.U.R.A., Hubble Space Telescope STIS Project, NASA's Goddard Space Flight Center, September 1996 to February 1999.

NSF-NATO Postdoctoral Fellow/Senior Research Assistant, Department of Physics, University of Durham, October 1992 to August 1996.

Research Assistant, Institute for Astronomy, University of Hawaii, June 1987 to September 1992.

Teaching Assistant, Dept. of Physics and Astronomy, Univ. of Hawaii 1986/87.

Laboratory Assistant, NASA – Goddard Space Flight Center, Summers, 1985 & 1986.

Teaching Assistant, Department of Astronomy, Harvard University, 1984/85 & 1985/86.

Laboratory Assistant, Department of Astronomy, Harvard University, June 1983 to August 1984.

PROJECT RESPONSIBILITIES:

James Webb Space Telescope, Deputy Senior Project Scientist, 2002-present.

Spitzer Space Telescope Independent Implementation Review Team, Member, 2005-present.

NASA – DOE Joint Dark Energy Mission Science Definition Team, Member, 2004-present.

James Webb Space Telescope Science Working Group, Member, 2002-present.

Special Assistant to the Chief Scientist of NASA, 2004.

Spitzer Space Telescope, Program Scientist, 2004.

James Webb Space Telescope, Project Scientist for Operations, 2002-2005.

Space Infrared Interferometric Telescope concept study, Co-Investigator, 2004.

Great Observatories Origins Deep Survey HST Treasury Program, Co-Investigator, 2002-present.

Hubble Space Telescope Parallel Working Group, Member, 1997-2003.

Nexus, Deputy Project Scientist, 2000.

Next Generation Space Telescope Ad-Hoc Science Working Group, Member, 1997-2000.

NGST Micro-shutter Multi-Object Spectrograph study, Co-Investigator, 1998-1999.

NGST Micro-mirror Multi-Object Spectrograph study, Co-Investigator, 1998-1999.

NGST Integrated Science Instrument Module study, Co-Investigator, 1998-1999.

Hubble Deep Field – South, Co-Investigator, 1998.

Science commissioning of AUTOFIB2/WYFFOS on the William Herschel Telescope, PI, 1994-1995.

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AWARDS:

2004 Goddard Space Flight Center Performance Award

For spearheading the work on the Dark Energy mission, and for obtaining and publishing

outstanding scientific results from the GOODS survey.

2003 Goddard Space Flight Center Performance Award

For NGST NIRCam proposal activities.

2002 Goddard Space Flight Center Performance Award

For consistently high performance in publication, proposal efforts and service to the lab.

2001 Goddard Space Flight Center Performance Award

For SIRTF Legacy Proposal and Nexus activities.

2000 Goddard Space Flight Center Special Act Award

In recognition of studies that have important implications for what NGST might see.

1992 NSF-NATO Postdoctoral Fellowship in Science and Engineering

In order to promote the progress of science and closer collaboration among the scientists of nations within the NATO alliance, fellowship awarded in recognition of scientific accomplishment.

1985 Sarah and Pauline Maier Scholarship

For academic achievement.

1983-86 Harvard College Scholarship

For academic achievement.

GRANTS:

2005 Feasibility Study for a Mid-IR High Resolution Echelle Spectrograph for the Thirty Meter

Telescope Project

Thirty Meter Telescope concept study award as Co-I. PI = Alan Tokunaga, Univ. Hawaii

Multi-variate Optical to Infrared Luminosity Functions of SWIRE Galaxies

with Measured Redshifts

Spitzer Space Telescope Cycle 2 Archival award as PI.

Probing Evolution and Reionization Spectroscopically (PEARS)

Hubble Space Telescope Cycle 14 GO (Treasury) Co-I award. PI = Sangeeta Malhotra, STScI.

Searching for Galaxies at z>6.5 in the Hubble Ultra Deep Field

Hubble Space Telescope Cycle 14 GO Co-I award. PI = Massimo Stiavelli, STScI.

2004 Ultraviolet Imaging of the UDF

Hubble Space Telescope Cycle 13 GO (Treasury) Co-I award. PI = Harry Teplitz, SSC.

Structure of the Cosmic Infrared Background from First Look Survey Data

Spitzer Space Telescope Cycle 1 AR Co-I award. PI = Alexander Kashlinsky, GSFC/SSAI.

UV properties of moderate redshift galaxies as a function of HST morphology

Galaxy Evolution Explorer Cycle 1 AR Co-I award. PI = Duilia de Mello, GSFC/CUA.

Space Infrared Interferometric Telescope

NRA: Origins Science Mission Concept Studies award as Co-I, PI = David Leisawitz, GSFC.

2003 NASA-Funded Contributions to the Supernova/Acceleration Probe (SNAP) Mission

NASA Research Announcement 03-OSS-01-EP (Einstein Probes) award as PI.

The Grism-ACS Program for Extragalactic Science

Hubble Space Telescope Cycle 12 GO Co-I award. PI = Sangeeta Malhotra, STScI.

2002 Pure Parallel Near-UV Observations with WFPC2 within High-Latitude ACS Survey Fields

Hubble Space Telescope Cycle 11 GO award as PI.

The Great Observatories Origins Deep Survey: Imaging with ACS

Hubble Space Telescope Cycle 11 Treasury Co-I award. PI = Mauro Giavalisco, STScI.

The Duty Cycle of Star Formation: Far-UV Imaging of the Hubble Deep Field

Hubble Space Telescope Cycle 11 GO Co-I award. PI = Harry Teplitz, GSFC/CUA.

Cosmic Shear with ACS Pure Parallels, 2002

Hubble Space Telescope Cycle 11 GO Co-I award. PI = Jason Rhodes, GSFC/NRC.

ACS Grism Parallel Survey of Emission-line Galaxies at Redshift z≤7, 2002

Hubble Space Telescope Cycle 11 GO Co-I award. PI = Lin Yan, IPAC.

2001 The X-ray Universe at High Redshift

Chandra X-ray Observatory Cycle 3 GO Co-I award. PI=Kirpal Nandra, GSFC/USRA.

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GRANTS continued:

1997

2001 The X-ray Emission of High Redshift Galaxies

Chandra X-ray Observatory Deepest Field Archival Co-I award. PI = Kirpal Nandra, GSFC/USRA.

1999 Star Formation in Galaxies at 0<z<1.6

Hubble Space Telescope Cycle 8 Archival award as PI.

STIS Imaging of the Deep NICMOS Parallel Fields: Building on the NICMOS Legacy

Hubble Space Telescope Cycle 8 GO Co-I award. PI = Patrick McCarthy, OCIW.

UV Imaging of Optical Jets: A New Window on the Physics of Extragalactic Jets

Hubble Space Telescope Cycle 8 GO Co-I award. PI = Stefi Baum, STScI.

Next Generation Space Telescope Ad-Hoc Science Working Group, 1997-2000.

To participate in the science planning of NGST.

Morphological and Spectral Evolution of Galaxies

Hubble Space Telescope Cycle 7 GO Co-I award. PI = Sara R. Heap, GSFC.

Deep UV Imaging of the Hubble Deep Field

Hubble Space Telescope Cycle 7 GO Co-I award. PI = Henry C. Ferguson, STScI.

1993 The Royal Society Travel Grant

To present an invited review at a major international conference.

1991 University of Hawaii Graduate Student Organization Travel Award

To present an invited review at a major international conference.

EDUCATION AND PUBLIC OUTREACH ACTIVITY:

Public Affairs:

Organized and moderated NASA Sciences Update Media Telecon, "Astronomers Discover Planet Building is a Big Mess", 2004

Organized Space Science Update, "Raw Ingredients for Life Detected in Planetary Construction Zones", 2004.

Speaker in AAS press conference, "The Universe "Down Under" is the Latest Target for Hubble's Latest Deep-View", 1999

Public Lectures:

NASA Academy, 2005

American Institute of Physics Senior Physicists, 2005

American Astronautical Society 43rd Goddard Memorial Symposium, 2005

National Capital Astronomers, 2005

Salisbury University, 2004.

Science Fair Awards Dinner, National Capital Section of the Optical Society of America, 2004.

Boy Scouts Troop 406, Astronomy Merit Badge Weekend, 2004.

IBM Innovation Day 2003.

Greater Hartford Astronomical Society StarConn, 2003.

Johns Hopkins University Society of Physics Students, 2002.

Anne Arundel Community College Astronomy Night, 2002.

Washington Area Science Fiction Convention, 2002.

Postdocs and Research Associates:

Duilia de Mello, Catholic University of America Research Associate, 2003-present.

Jason Rhodes, GSFC NRC Resident Research Associate, 2000-2003.

Students and Teachers:

Students United With NASA Becoming Enthusiastic About Math and Science (SUNBEAMS), teacher: Rasheki Kuykendall, 2002.

U. S. Naval Academy Midshipman Summer Intern, Luke R. Dundon, 2002.

Prince Georges County Summer Internship for Math, Science and Technology Teachers, Nicole Crumpler, 2000

GSFC summer undergraduate student, Anil Kochhar, 1998-2000.

GSFC summer undergraduate student, Sophia Khan, 1998.

NASA/NSTA Space Science Student Involvement Program, 1998.

Tutor & Laboratory Demonstrator, Dept. of Physics, Univ. of Durham, 1994/95 & 1995/96.

Teaching Assistant, Dept. of Physics and Astronomy, Univ. of Hawaii 1986/87.

Teaching Assistant, Department of Astronomy, Harvard University, 1984/85 & 1985/86.

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TRAINING COURSES COMPLETED:

Negotiating Techniques, USDA Graduate School, April 2005

Basic First Aid & Adult CPR, NASA Safety Training Center & American Red Cross, March 2005

Proposal Storyboarding, Bill Taylor, March 2005

Managing the Influence Process, NASA Human Resources, February 2004.

Organizational Savvy: Building Influence and Impact, Rick Brandon, December 2003.

The 65th Technical Management Program, UCLA Extension, March 2003.

Project Management Shared Experiences Program, APPL, September 2002.

Microsoft Access 2000, GSFC Learning Center, April 2002.

Principal Investigator Project Management Workshop, John Wolfgang, GSFC, November 2000.

Microsoft Project 98, GSFC Learning Center, October 2000.

Space Systems II, Eric Hoffman, JHU/APL (ATI), July 2000.

Space Systems I, Vincent Pisacane, JHU/APL (ATI), June 2000.

Electro-optical and Infrared Systems Design, Nelson Wallace, TRW, May 2000.

Goddard Leadership Education Series, GSFC Human Resources, October 1999.

PROFESSIONAL MEMBERSHIPS:

American Astronomical Society, 1989-present. International Astronomical Union, 2000-present.

PUBLICATIONS:

Please see attached.

REFERENCES:

Available on request.